

### Abstract of the Disclosure

A leading fiber penetrates through a holding element and is optically coupled to an optical element placed in a package. An external cord fiber longer than the leading fiber passes a through hole of a glass sleeve and is connected to the leading fiber to form an optical fiber composed of the leading fiber and the external cord fiber. The holding element is inserted into the glass sleeve to place a fusion-spliced portion between the leading fiber and the external cord fiber in the through hole of the glass sleeve. UV hardening resin hardened by receiving ultraviolet rays is packed and hardened in the through hole of the glass sleeve to cover the fusion-spliced portion with the UV hardening resin and the glass sleeve.

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